	TABLE R602.3(1A) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS NUMBER AND TYPE OF	RUCTURAL MEMBERS NUMBER AND TYPE OF	
150	DESCRIPTION OF BUILDING ELEMENTS Roof	FASTENER ^{a, b, c}	SPACING OF FASTENERS
1	Blocking between joists or rafters to top plate, toe nail	$3-8d (2^1/2" \times 0.113")$	-
2	Ceiling joists to plate, toe nail	$3-8d (2^1/2" \times 0.113")$	1
ω	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	ı
4	Collar tie rafter, face nail or $1^1/4^n \times 20$ gage ridge strap	3-10d (3"×0.128")	I
5	Rafter to plate, toe nail	$2-16d (3^{1}/_{2}" \times 0.135")$	ı
	Roof rafters to ridge, valley or hip rafters:		
6	toe nail	$4-16d (3^{1}/_{2}^{"} \times 0.135")$	ı
	face nail	$3-16d (3^{1}/2^{"} \times 0.135")$	I
	Wall		
7	Built-up corner studs	10d (3"×0.128")	24" o.c.
∞	Built-up header, two pieces with 1/2" spacer	$16d (3^{1}/2" \times 0.135")$	16" o.c. along each edge
9	Continued header, two pieces	$16d (3^{1}/_{2}" \times 0.135")$	16" o.c. along each edge
10	Continuous header to stud, toe nail	$4-8d (2^1/2" \times 0.113")$	_
11	Double studs, face nail	10d (3"×0.128")	24" o.c.
12	Double top plates, face nail	10d (3"×0.128")	24" o.c.
13	Double top plates, minimum 24-inch offset of end joints,	8-16d (3 ¹ / ₂ "×0.135")	_
14	Sole plate to joist or blocking, face nail	16d (3 ¹ / ₂ "×0.135")	16" o.c.
15	Sole plate to joist or blocking at braced wall panels	$3-16d (3^{1}/2" \times 0.135")$	16" o.c.
		$3-8d (2^1/2^" \times 0.113")$	ı
16	Stud to sole plate, toe nail	or $2-16d 3^{1}/2^{"} \times 0.135"$)	I
17	Top or sole plate to stud, end nail	$2-16d (3^{1}/2" \times 0.135")$	-
18	Top plates, laps at corners and intersections, face nail	2-10d (3"×0.128")	-
19	1" brace to each stud and plate, face nail	$2-8d (2^{1}/_{2}^{"} \times 0.113")$ 2 staples $1^{3}/_{4}$ "	1 1
20	1" × 6" sheathing to each bearing, face nail	2-8d $(2^{1}/_{2}" \times 0.113")$ 2 staples $1^{3}/_{4}"$	1 1
21	$1" \times 8"$ s heathing to each bearing, face nail	2-8d $(2^{1}/2" \times 0.113")$ 3 staples $1^{3}/4"$	1 1
22	Wider than $1" \times 8"$ sheathing to each bearing, face nail	$3-8d (2^{1}/2" \times 0.113")$	I
		4 staples 1 ³ / ₄ "	1
	Floor		
23	Joist to sill or girder, toe nail	$3-8d (2^{1}/_{2}" \times 0.113")$	ı
24	$1" \times 6"$ subfloor or less to each joist, face nail	2-8d $(2^{1}/_{2}^{"} \times 0.113")$ 2 staples $1^{3}/_{4}$ "	1 1
25	2" subfloor to joist or girder, blind and face nail	$2-16d (3^{1}/_{2}" \times 0.135")$	Ι
26	Rim joist to top plate, toe nail (roof applications also)	$8d(2^{1}/2" \times 0.113")$	6" o.c.
27	2" planks (plank & beam - floor & roof)	$2-16d (3^{1}/_{2}" \times 0.135")$	at each bearing
			Nail each layer as follows:
28	Built-up girders and beams, 2-inch lumber layers	10d (3"×0.128")	32" o.c. at top and bottom and staggered. Two nails at ends
		3-16d (3 ¹ / ₂ "×0.135")	At each joist or rafter

38		37		36	35	34 25/ ₂	33 1/2'		32	31	30	Woo	ITEM		
	⁷ / ₈ "- 1"	³ /4" and less	Wood st	⁵ /8″ gypsum sheathing ^d	¹ /2" gypsum sheathing ^d	²⁵ / ₃₂ " structural cellulosic fiberboard sheathing	1/2" structural cellulosic fiberboard sheathing		11/8" - 11/4"	¹⁹ / ₃₂ " - 1"	3/8"-1/2"	d structural panels, subfloor		DESCRIPTION OF BUILDING	TABLE
10d common $(3'' \times 0.148'')$ nail or	8d common $(2^1/2'' \times 0.131'')$ nail or 8d deformed $(2^1/2'' \times 0.120'')$ nail	6d deformed (2" \times 0.120") nail or 8d common ($2^1/2$ " \times 0.131") nail	Wood structural panels, combination subfloor underlayment to framing	$1^3/4''$ glavanized roofing nail; staple galvanized, $1^5/8$ "long; $1^5/8$ "screws, Type W or S	$1^1/_2$ "galvanized roofing nail; staple galvanized, $1^1/_2$ " long; $1^1/_4$ screws, Type W or S	$1^3/_4$ "galvanized roofing nail, $^7/_{16}$ " crown or 1" crown staple 16 ga., $1^1/_2$ " long	$1^1/_2$ " galvanized roofing nail, $^7/_{16}$ " crown or 1" crown staple 16 ga., $1^1/_4$ "long	Other wall sheathing ^h	10d common (3"×0.148") nail or 8d (2 ¹ / ₂ "×0.131") deformed nail	8d common nail $(2^1/2'' \times 0.131'')$	6d common (2"×0.113") nail (subfloor wall) 8d common (2 ¹ / ₂ "×0.131") nail (roof) ^f	Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing	DESCRIPTION OF FASTENER ^{b, c, e}		TABLE R602.3(1B) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS
'n	6	6		7	7	3	3		6	6	6	sheathing to framin	(inches) ⁱ	SPACING OF	
12	12	12		7	7	6	6		12	12 ^g	12 ^g	σq	supports ^{c, e} (inches)	SPACING OF FASTENERS	

- All nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameters of 0.142 inch or less.

 Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width.

 Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.

 Four-foot-by-8-foot or 4-foot-by-9-foot panels shall be based on Table R602-3(2).

 Spacing of fasteners not included in this table shall be based on Table R602-3(2).

 For regions having basic wind speed of 110 mph or greater, 8d deformed (2-1/2"x0.120) nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.

 For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing.

 When basic wind speed is greater than 100 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from sable end walls; and 4 inches on center to gable end wall framing.

 Gypsum sheathing shall conform to ASTM C 1396 and shall be installed in accordance with 6A 253. Fiberboard sheathing shall conform to ASTM C 208.

 Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at all floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking of roof or floor sheathing panel edges supported by framing members and required blocking of roof or floor sheathing panel edges supported by framing members or this code. Floor perimeter shall be supported by framing members or solid blocking.

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	TABLE R602.3(2) ALTERNATE ATTACHMENTS		
	DESCRIPTION ^{a, b} OF FASTENER AND LENGTH	SPACING° OI	SPACING ^c OF FASTENERS
NOMINAL MATERIAL THICKNESS (inches)	(inches)	Edges	Intermediate suppo
		(inches)	(inches)
Wood structural pa	Wood structural panels subfloor, roof and wall sheathing to framing and particleboard wall sheathing to framing ^t	board wall sheathing	ງ to framing ^f
	Staple 15 ga. 1 ³ /,	4	&
up to 1/2	0.097 - 0.099 Nail 2 ¹ / ₄	ω	6
	Staple 16 ga. 1 ³ / ₄	ω	6
	0.113 Nail 2	ω	6
¹⁹ / ₃₂ and ⁵ / ₈	Staple 15 and 16 ga. 2	4	8
		4	8
	Staple 14 ga. 2	4	8
23,	Staple 15 ga. 1 ³ / ₄	3	6
-7) ₃₂ and 7/ ₄	0.097 - 0.099 Nail 2 ¹ / ₄	4	8
	Staple 16 ga. 2	4	8
	Staple 14 ga. 2 ¹ / ₄	4	8
`	0.113 Nail 2 ¹ / ₄	ω	6
-	Staple 15 ga. 2 ¹ / ₄	4	8
	0.097 - 0.099 Nail 2 ¹ / ₂	4	8
NOMINAL MATERIAL THICKNESS	DESCRIPTION ^{a,b} OF FASTENER AND LENGTH	SPACING° OF	F FASTENERS
(inches)	(inches)	Edges	Body of panel ^d
	Floor underlayment; plywood-hardboard-particleboard		
	Plywood		
	1 ¹ / ₄ ring or screw shank nail-minimum	ω	6
$^{1}/_{4}$ and $^{5}/_{16}$	$12^{1}/_{2}$ ga. (0.099") shank diameter	c	c
	Staple 18 ga., ⁷ / ₈ , ³ / ₁₆ crown width	2	5
11 / 2 3 / 15 / 2 and 1 / 3	1 ¹ / ₄ ring or screw shank nail-minimum	ი	Дe
78, 732,	$12^{1}/_{2}$ ga. (0.099") shank diameter	c	c
10, 5, 22,	1 ¹ / ₂ ring or screw shank nail-minimum	6	8
/32, /8, /32 and /4	12 /2 ga. (0.000) shahk diameter	,	
	Staple 16 ga. 11/2	6	8
	naropoaro	>)
·	1'/2 long ring-grooved underlayment nail	ာ တ	ာ တ
0.200	4d cement-coated sinker nail	ယ တ	ာ တ
	Particlahoard		
	4d ring-grooved underlayment nail	w	D)
1/4	Staple 18 ga., ⁷ / ₈ long, ³ / ₁₆ crown	ω	6
3/8		6	10
- 1	Staple 16 ga., 1 ¹ / ₈ long, ³ / ₈ crown	ω	6
1/_ 5/_	6d ring-grooved underlayment nail	6	10
72, 78	Staple 16 ga., 1 ⁵ / ₈ long, ³ / ₈ crown	ω	6

- For SI: 1 inch = 25.4 mm.

 A. Nail is a general desc
 B. Staples shall have a r
 C. Nails or staples shall
 inches on center at ir
 D. Fasteners shall be pla
 E. For 5-ply panels, inte Nail is a general description and may be T-head, modified round head or round head. Staples shall have a minimum crown width of 7/16-inch on diameter except as noted. Nails or staples shall be spaced at not more than 6 inches on center at all supports where spans a inches on center at intermediate supports for floors.

 Fasteners shall be placed in a grid pattern throughout the body of the panel.

 For 5-ply panels, intermediate nails shall be spaced not more than 12 inches on center each way.

TABLE	R602.3(3) REQUIR	TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURESa,b,c	DD STRUCTURA	L PANEL WALL	. SHEATHING U	SED TO RESIST	WIND PRES	SURES _{a,b,c}	
MINIMUM NAIL	M NAIL	MINIMUM WOOD	MINIMUM	MAXIMUM SPACING	PANEL NAI	L NAIL SPACING	MAXIM	MAXIMUM WIND SPEED	3PEED
3	Penetration	PANEL SPAN RATING	THICKNESS	(inches)	Edges	Field	Wind e	Wind exposure category	tegory
Size	Penetration (inches)	RATING	(inches)		Edges (inches o.c.)	o.c.) (inches o.c.)	Wind ex	xposure ca	tegory D
6d Common(2.0" × 0.113")	1.5	24/0	3/8	16	6	12	110	90	85
8d Common(2.5"× 0.131")	1.75	24/16	7/16	16	6	12	130	110	105
				7.0	9	2	440	8	07

SCALE: |"=|'-0"

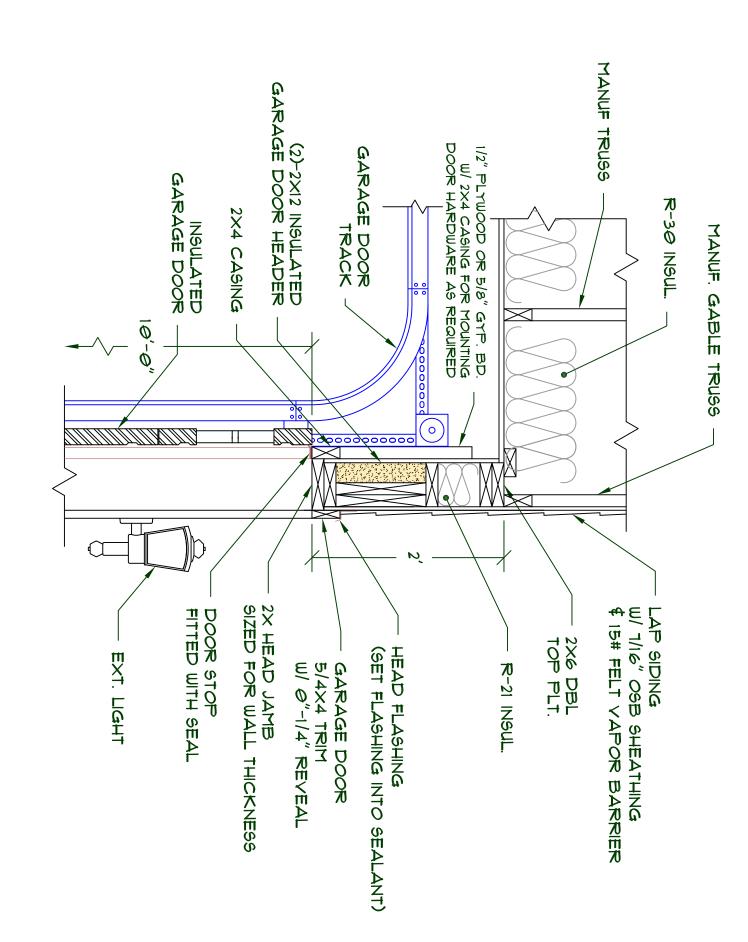
For SI: 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s.

- Panel strength axis parallel or perpendicular to supports. Three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports.

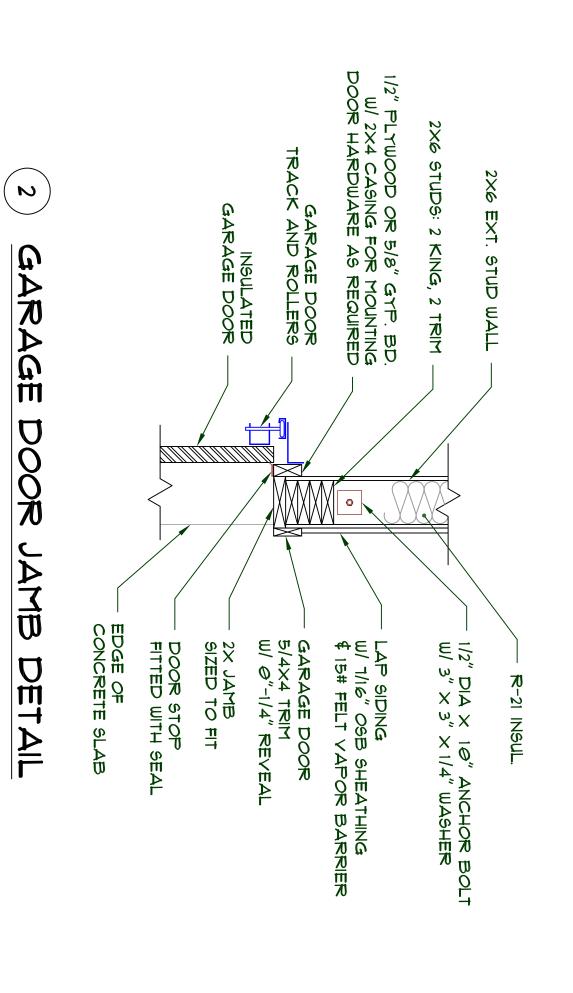
 Table is based on wind pressures acting toward and away from building surfaces per Section R301.2. Lateral bracing requirements shall be in accordance with Section R602.10. Wood Structural Panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16 oc shall be used with studs spaced a maximum of 16 inches on center.

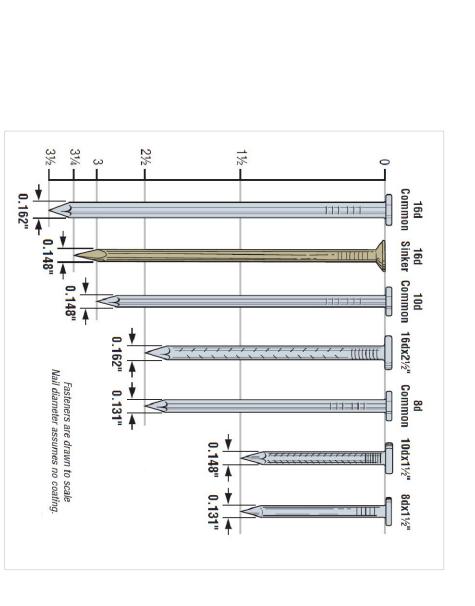
1/2	3/8			(inch)	THICKNESS	
M-2 Exterior glue	M-1 Exterior glue			GRADE		TABLE R602.3(4) ALLOWABLE SPANS FOR PARTICLEBOARD WALL SHEATHINGa
16	16	studs	When siding is nailed to	(inc	STUD S	EBOARD WALL SHEATHINGa
16	•	sheathing	When siding is nailed to	(inches)	STUD SPACING	

Wall sheathing not exposed to the weather. If the panels are applied horizontally, the end joints of the panel shall be offset so the edges must be supported. Leave a 1/16-inch gap between panels and nail no closer than 3/8 inch from panel edges.



GARAGE DOOR HEAD SCALE: 1"=1'-0" DETAIL





SHEET	CUSTOMER:	REVISION HISTORY:
	LOCATION:	

SHEET CONTENTS: FASTENER SCHEDULE GARAGE DOOR DETAILS DESIGNED BY: PLAN NO. NPW GARAGE2826-2 DATE: 5/21/2014 SCALE 1:12

3050 SR 109 COPALIS BEACH, WA 98535 ph (425) 741-5555 DESIGN.MEDEEK.COM THIRD ANGLE PROJECTION

MEDEEK DESIGN

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REVISION: A.1